FIG. 1A
(PRIOR ART)

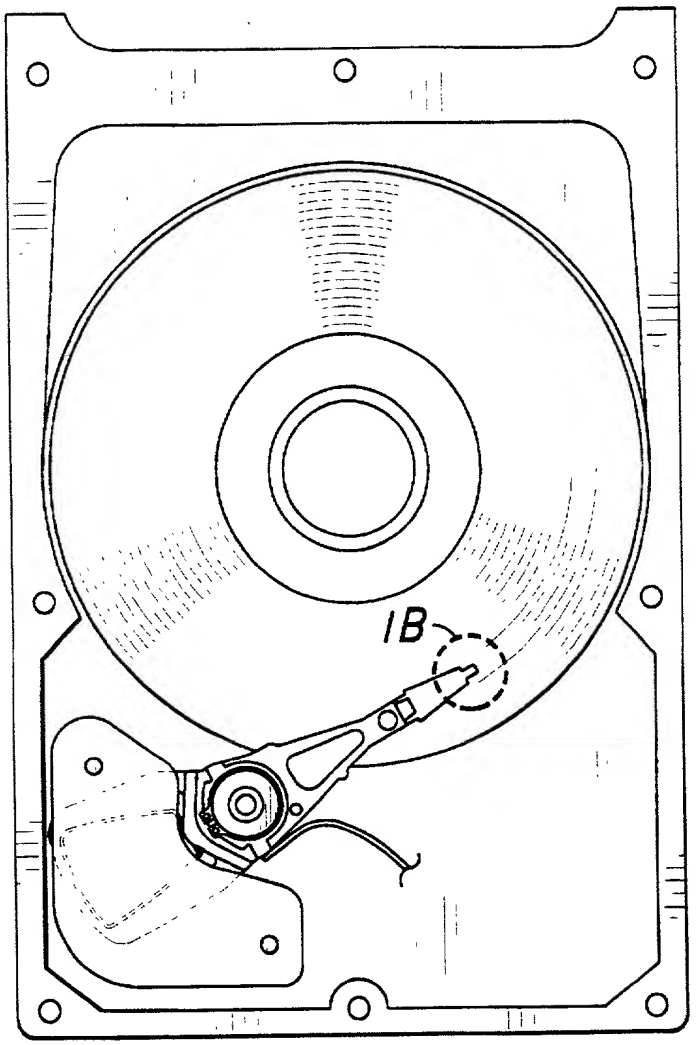


FIG. 1B
(PRIOR ART)

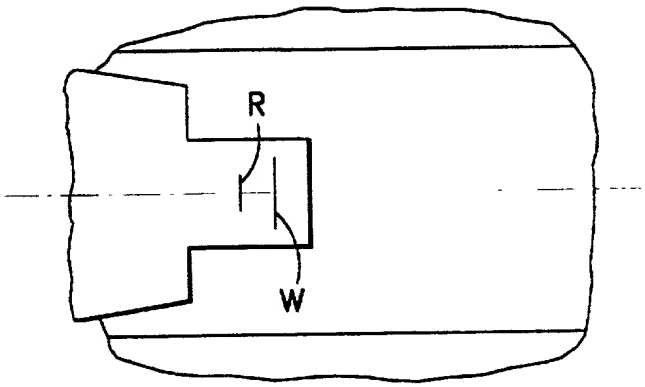


FIG. 2A
(PRIOR ART)

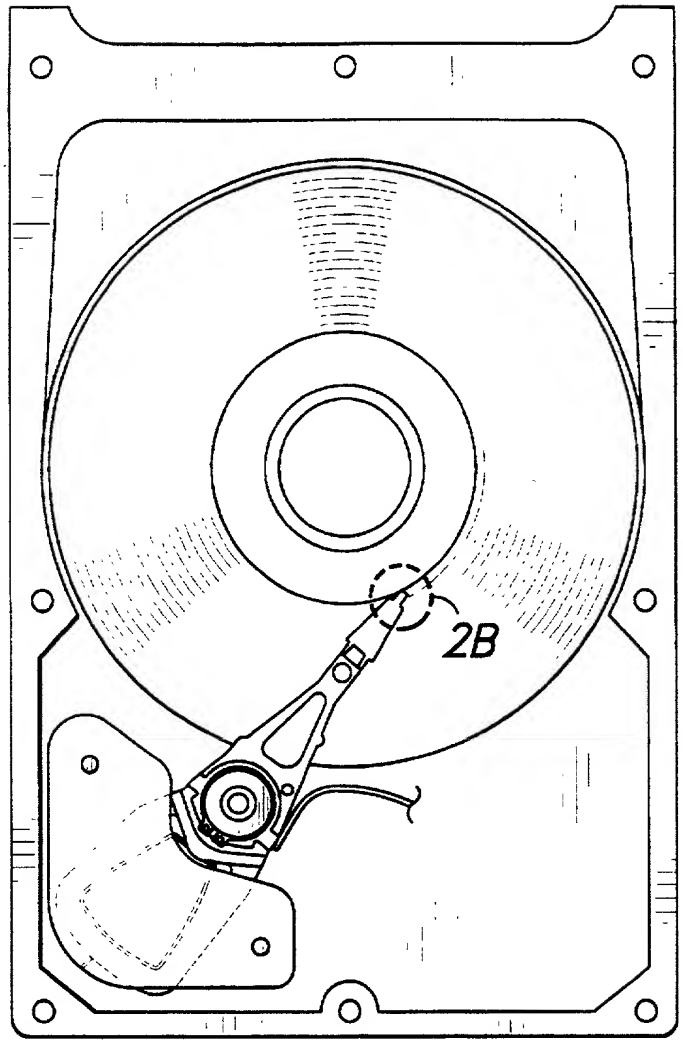


FIG. 2B
(PRIOR ART)

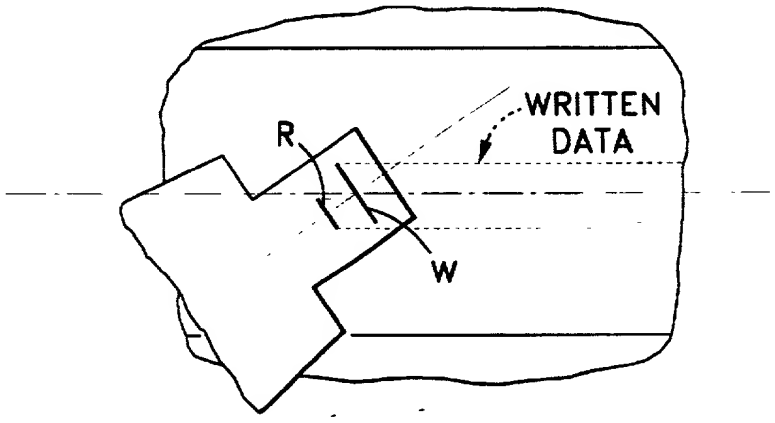


FIG. 3

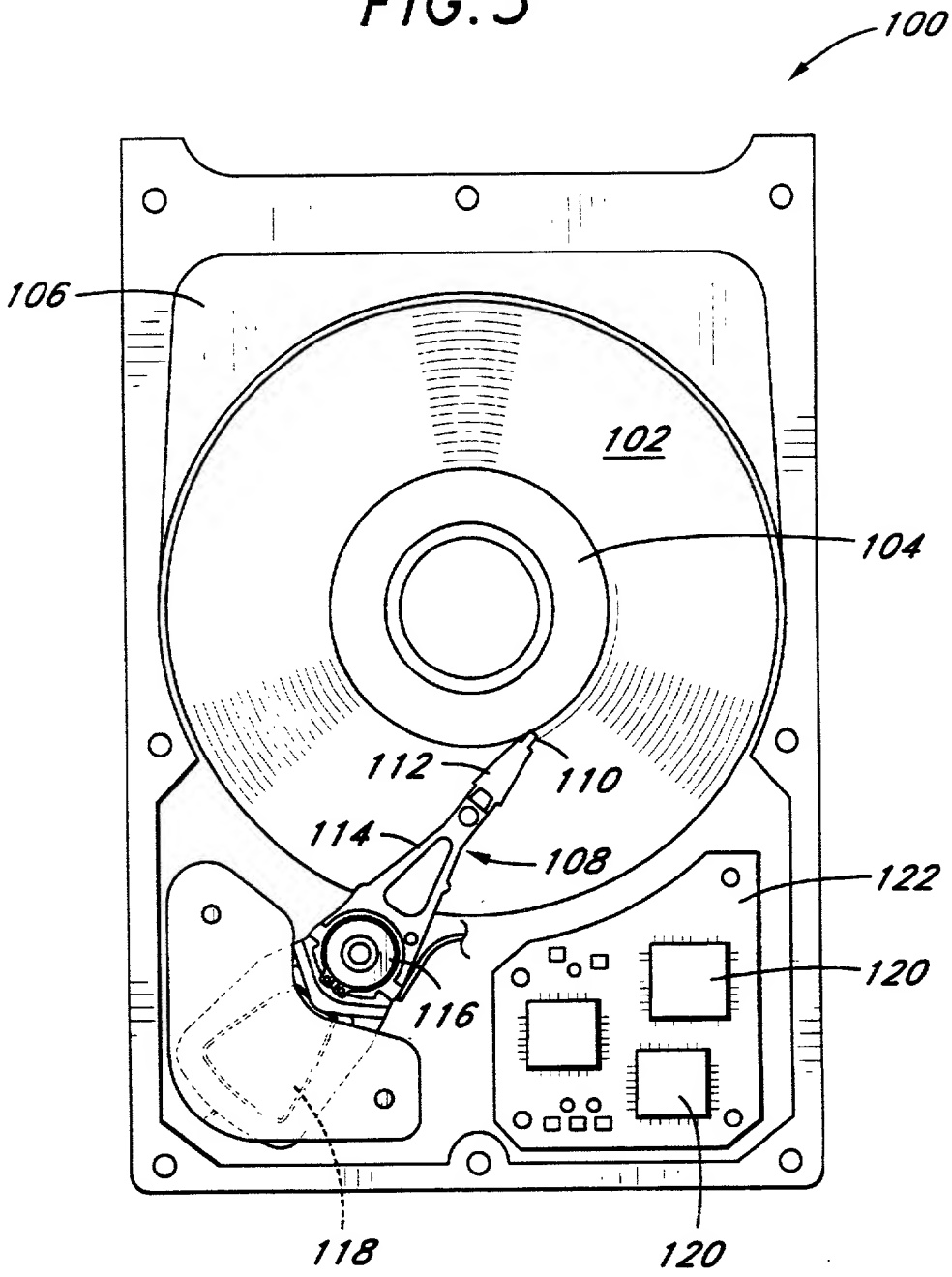
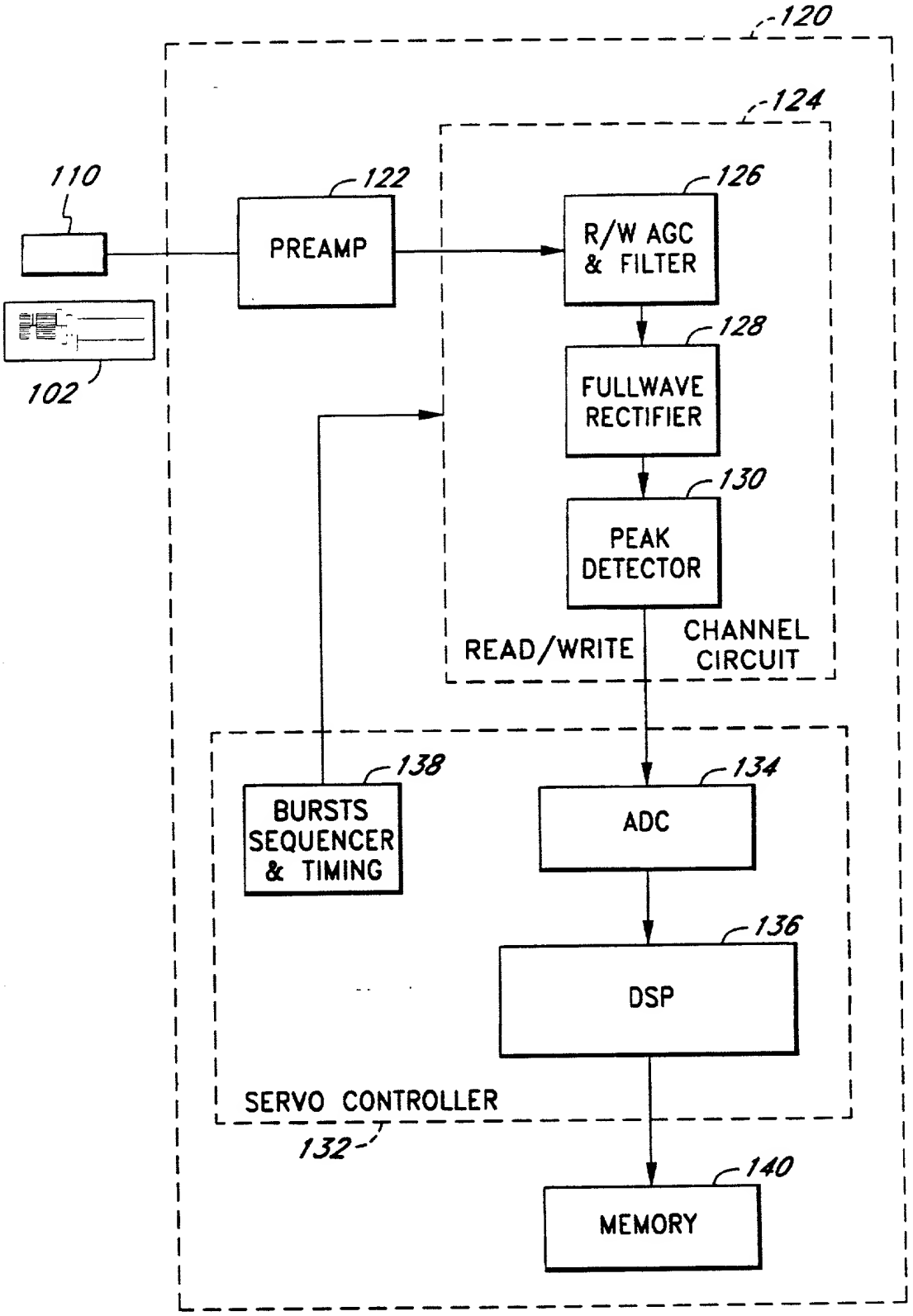


FIG. 4


120
124
110
122
126
PREAMP
R/W AGC & FILTER
102
128
FULLWAVE RECTIFIER
130
PEAK DETECTOR
READ/WRITE CHANNEL CIRCUIT
138
134
BURSTS SEQUENCER & TIMING
ADC
136
DSP
SERVO CONTROLLER
132
140
MEMORY

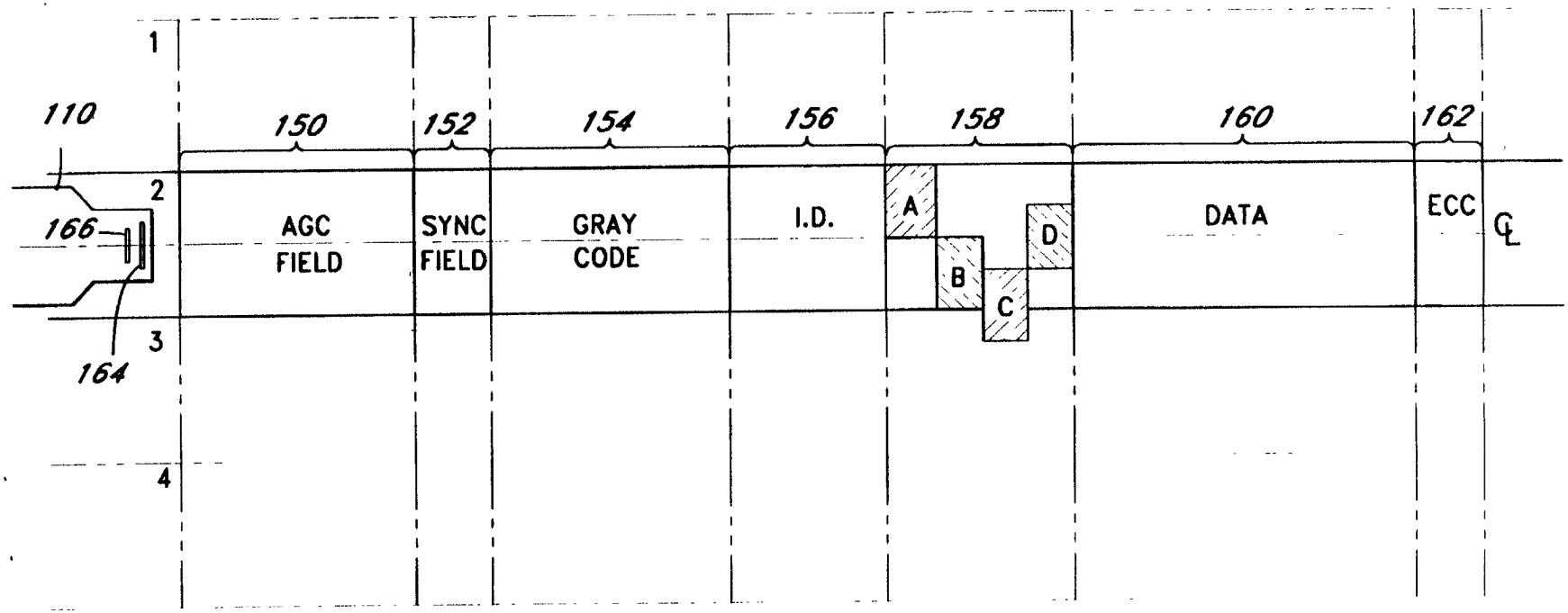

1
2
3
4
110
150
152
154
156
158
160
162
166
164
AGC FIELD
SYNC FIELD
GRAY CODE
I.D.
A
B
C
D
DATA
ECC
℄

FIG. 5

FIG. 6A

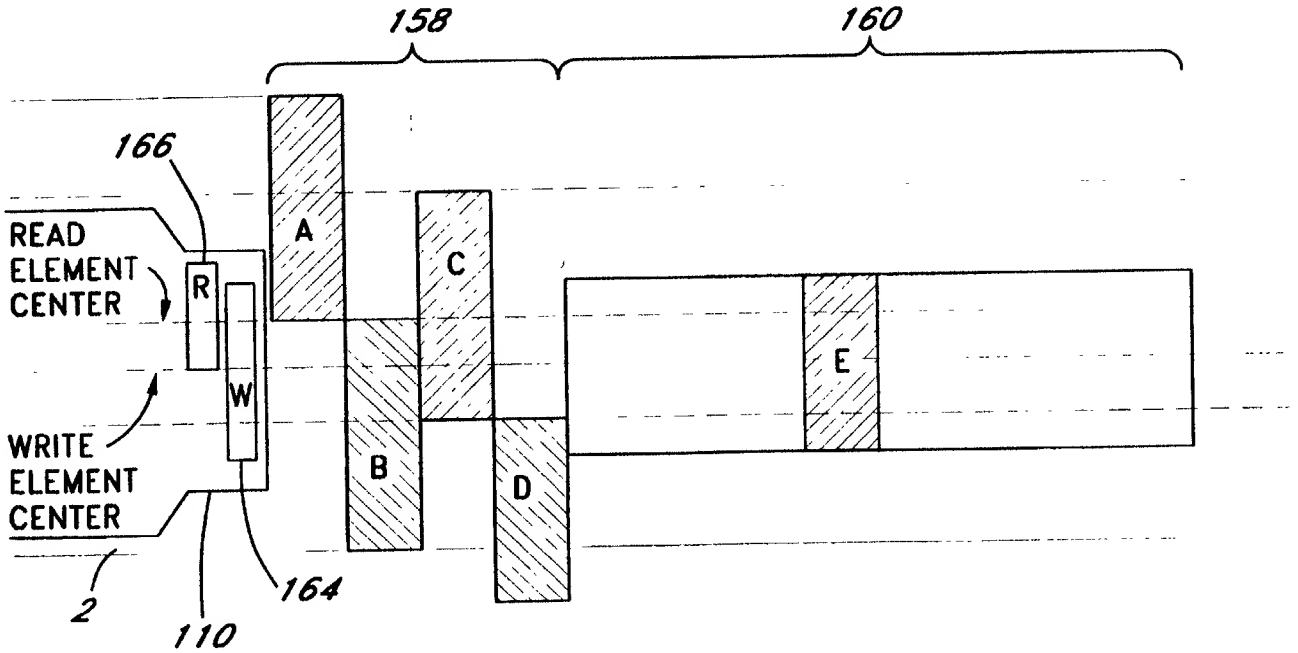


FIG. 6B

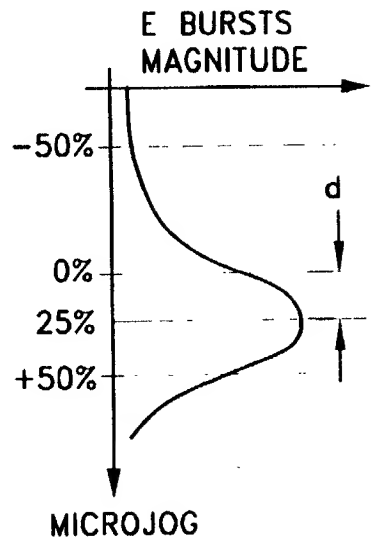


FIG. 7A

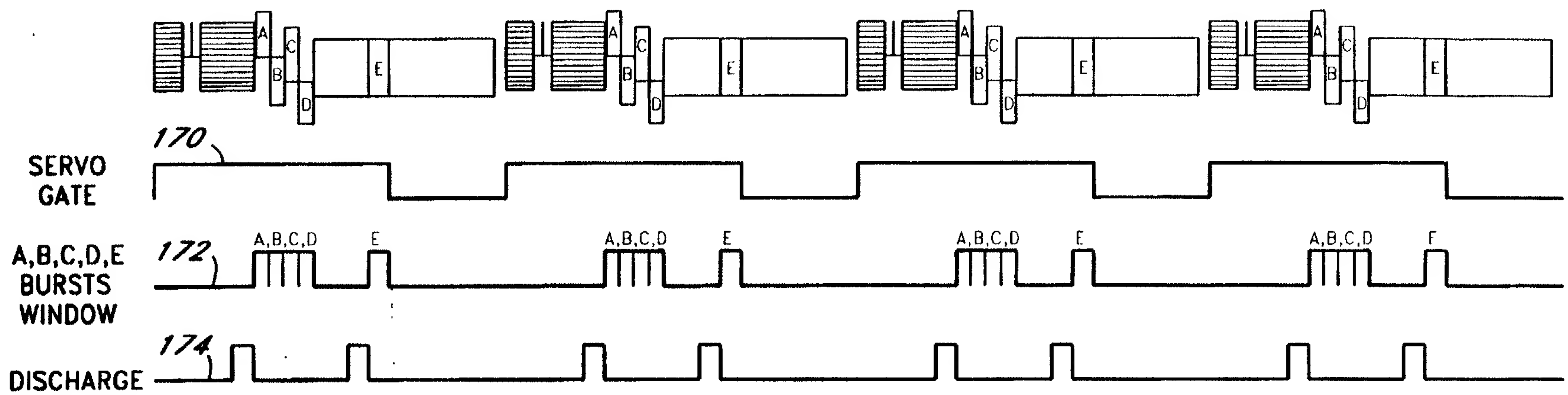

170
172
174
SERVO GATE
A,B,C,D,E BURSTS WINDOW
DISCHARGE
A
B
C
D
E
A,B,C,D
F

FIG. 8

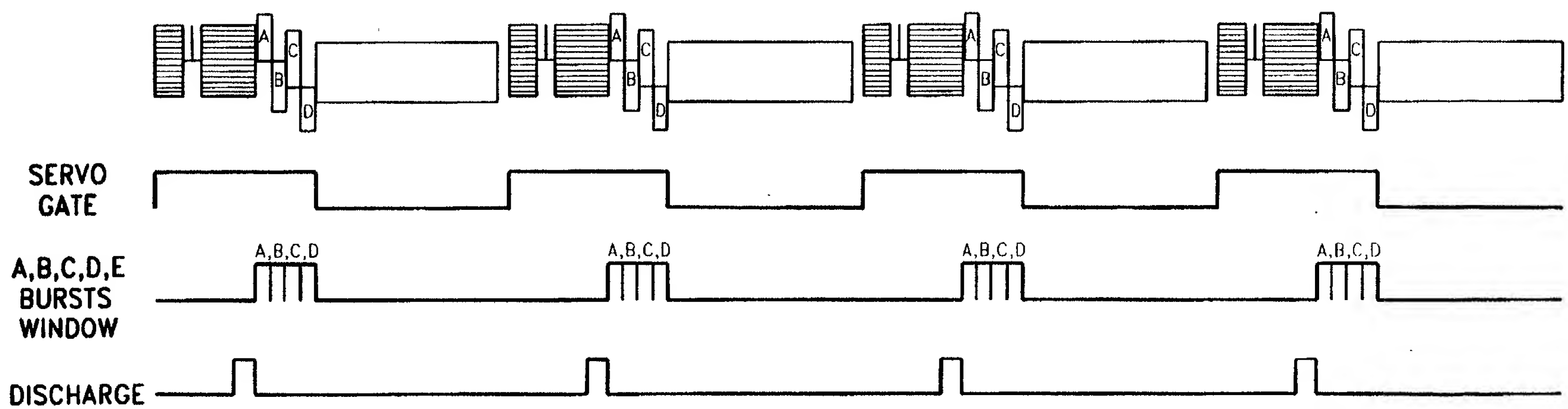
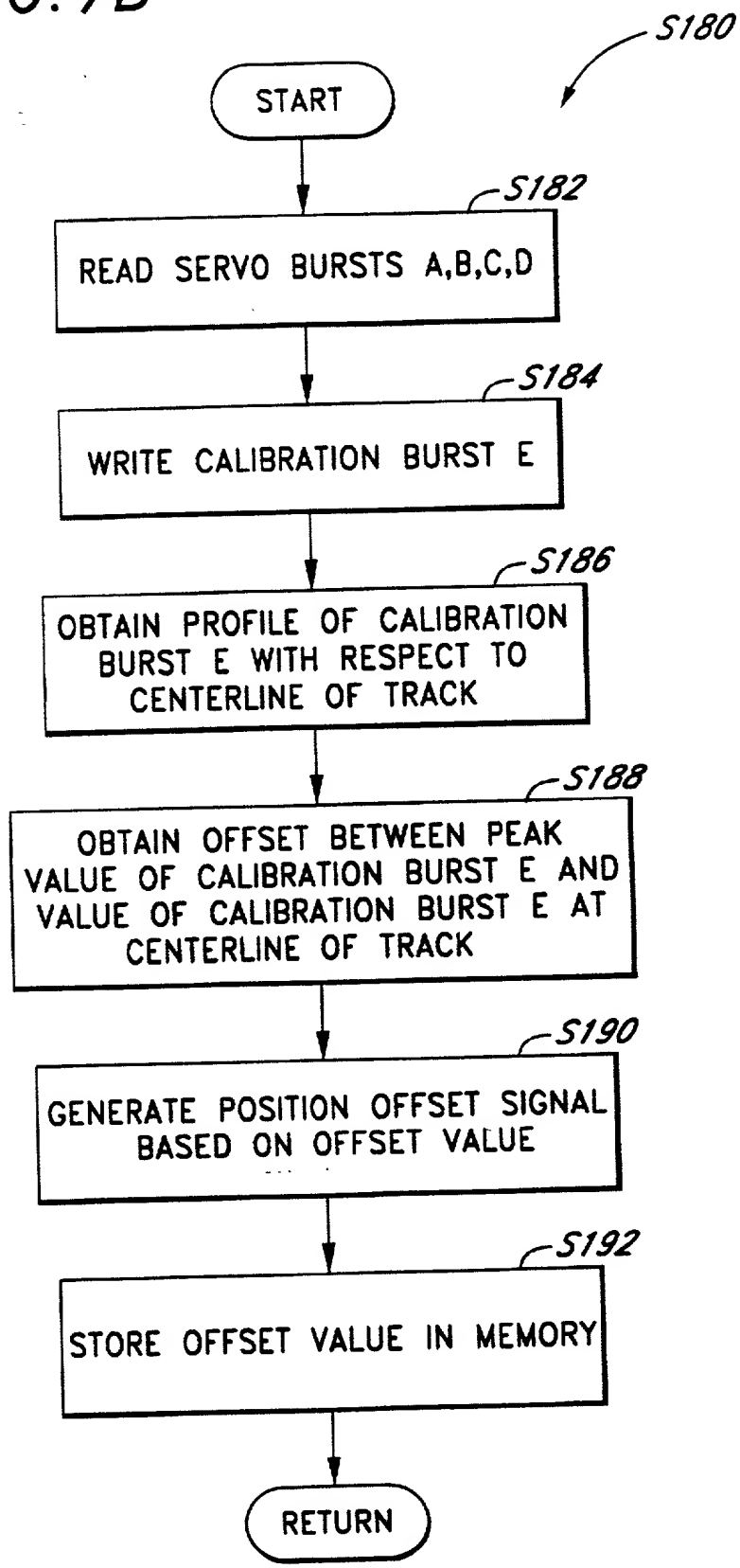

SERVO GATE
A,B,C,D,E BURSTS WINDOW
DISCHARGE
A
B
C
D
A,B,C,D

FIG. 7B


S180
START
S182
READ SERVO BURSTS A,B,C,D
S184
WRITE CALIBRATION BURST E
S186
OBTAIN PROFILE OF CALIBRATION BURST E WITH RESPECT TO CENTERLINE OF TRACK
S188
OBTAIN OFFSET BETWEEN PEAK VALUE OF CALIBRATION BURST E AND VALUE OF CALIBRATION BURST E AT CENTERLINE OF TRACK
S190
GENERATE POSITION OFFSET SIGNAL BASED ON OFFSET VALUE
S192
STORE OFFSET VALUE IN MEMORY
RETURN

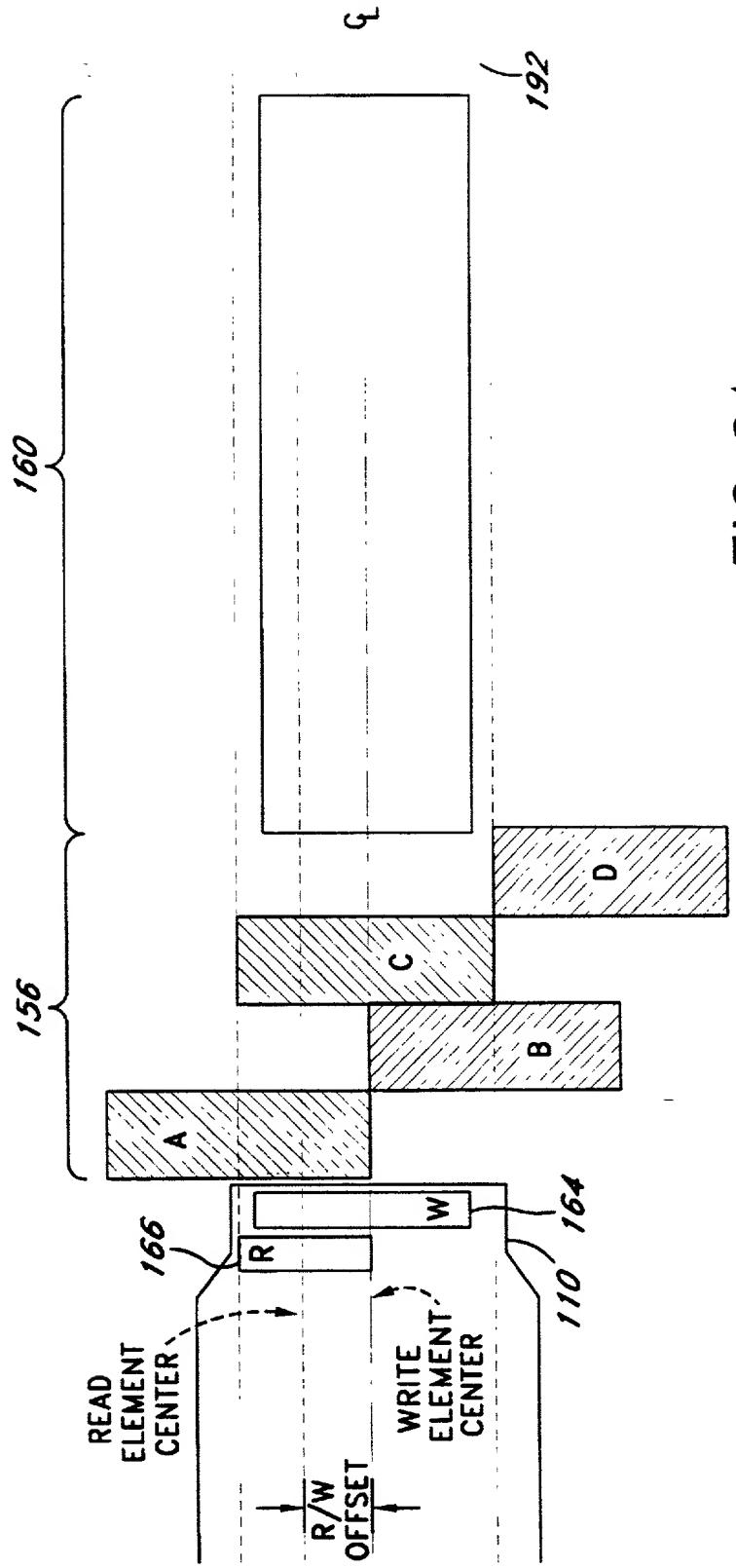
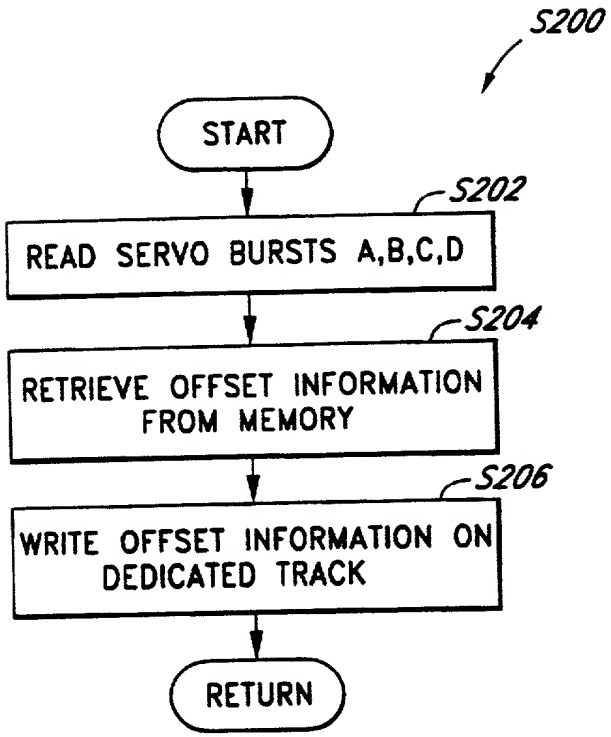

160
156
192
GL
A
B
C
D
R
W
166
164
110
READ ELEMENT CENTER
WRITE ELEMENT CENTER
R/W OFFSET

FIG. 9A

FIG. 9B


S200
START
S202
READ SERVO BURSTS A,B,C,D
S204
RETRIEVE OFFSET INFORMATION FROM MEMORY
S206
WRITE OFFSET INFORMATION ON DEDICATED TRACK
RETURN

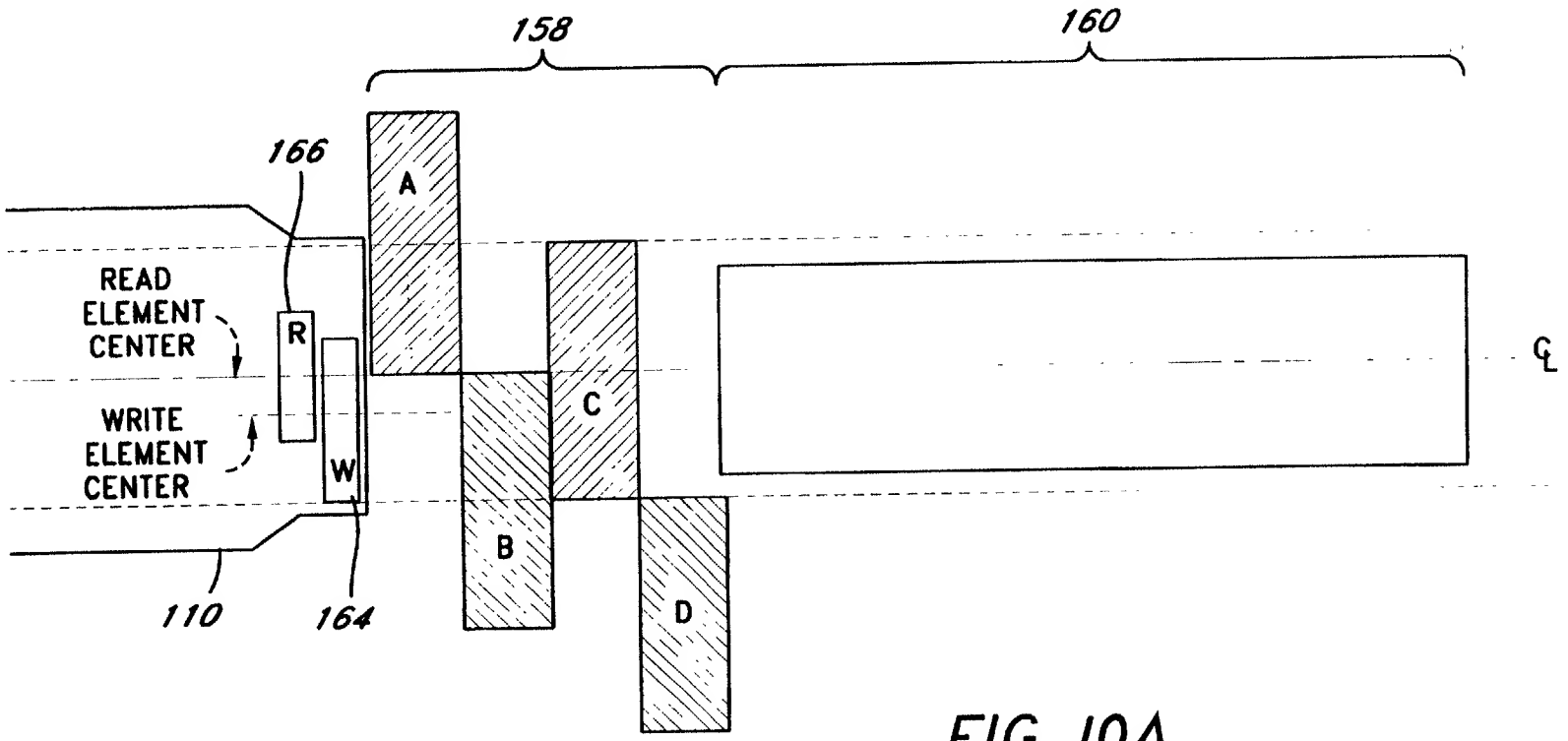
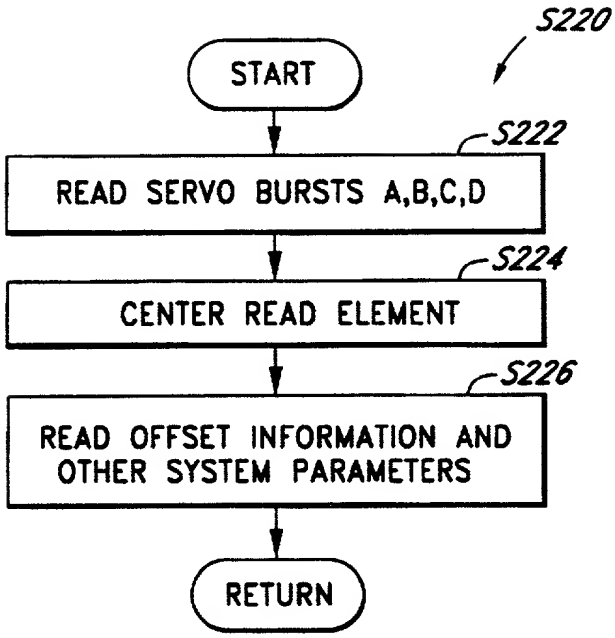

158
160
166
A
READ
ELEMENT
CENTER
R
WRITE
ELEMENT
CENTER
W
C
B
D
CL
110
164

FIG. 10A

FIG. 10B


S220
START
S222
READ SERVO BURSTS A,B,C,D
S224
CENTER READ ELEMENT
S226
READ OFFSET INFORMATION AND OTHER SYSTEM PARAMETERS
RETURN